

PROJECT: Midnite Mine Remediation

REPORT NO: 2019-013

OWNER: Newmont/Dawn Mining

OPERATOR: Newmont/Dawn Mining

Summary of Work Activities or Events for this reporting period:

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period June 21 – June 27, 2019. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: <https://amcollab.mwhtools.com/sites/midnitemine>

SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period June 21 – June 27, 2019

FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		

Comments: No incidents or injuries occurred during the reporting period. A mock Emergency Response Drill was conducted on June 27 with successful support and participation from Tribal EMS.

COMMUNITY LIAISON

No issues or concerns were reported or received by Newmont from the Spokane Tribe of Indians Community Liaison Officer. The Tribal Liaison Officer advised that planning is underway for a Community Meeting for the week of August 19, 2019. Mobilization notifications were provided to the Tribe during the week.

PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS

Weekly Progress Meeting:

The Weekly Construction Progress meeting was held at 1000 hours on Wednesday, June 26, 2019 at the on-site conference room and via conference call. Representatives from the following stakeholders attended the meeting in person or via telephone:

- EPA
- Spokane Tribe of Indians
- Jacobs
- Dawn Mining Company (DMC)/Newmont Goldcorp
- Stantec
- Ajax
- WME

Meeting Action Items:

- None

EPA Plan/Document Approvals:

- None

Regulatory Site Visit(s):

- Steve Demus, Jacobs, representing EPA was on site June 21.

REMEDIAL WORK ACTIVITIES

Construction:

During the week of June 21 – June 27, 2019, the following activities were conducted:

- Continued excavating, hauling and placing low activity/low reactivity material from South Waste Rock Pile (SWRP) South Pond cut and the SWRP North cut in Pit 4. Material from SWRP was placed on the north, east, and west sides of Pit 4 to create the 20' rind buffer area, at the south end of the Pit 4 backfill to form the 20' radon buffer on the outer waste surface, and in the unclassified waste zone in the interior of the pit.
- Began excavating, hauling and placing high activity/high reactivity material from Ore Stockpile 1 (Stockpile 1) in Pit 4. High activity/high reactivity material was placed in the unclassified waste zone in the interior of the Pit 4 backfill.
- Continued removing visible mine waste from the east Pit 4 Tie-In Area, including some material from the Pit 4 Overburden Pile. Soils from the area included some vegetative debris and were placed in the unclassified waste zone in the interior of Pit 4.
- The above materials were excavated with either excavator or loader equipment and transported and plug dumped with haul trucks. The plug dumps were leveled with a dozer into lifts not exceeding 10' thick. Table 1 presents the 2019 Pit 4 mass haul materials volume.

Table 1 – 2019 Pit 4 mass haul volume estimates

Reporting Period	Truck Loads	Estimated Volume¹ yd³
June 21 – June 27, 2019	3,274	91,672
2019 Cumulative	39,638	1,109,864

1 - Truck load assumed to be 28 yd³

- Constructed a haul road to Stockpile 1, including burying Water Treatment Plant pipelines that cross the haul route.
- Continued work on the Infiltration Collectors (IC) on the west side of Pit 4 on the main channel and the finger drains extending to the west up the hillside.
- Wm. Winkler set up their tub grinder in the Temporary Impacted Soil Stockpile (TISS) and continued processing stockpiled timber.
- Completed monthly fence inspection and repaired fence damage and where animals had dug under the fence.
- Pit 4 tension crack was measured on June 25. The horizontal distance between movement pins remains at 53.75 inches, indicating no measurable movement.

Stormwater Pollution Prevention Plan (SWPPP)

- The Utility Crew completed SWPPP maintenance items along the West Access Road and New Access Road

Spill Prevention, Control, and Countermeasure Activities (SPCC)

- None

Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Wm. Winkler remobilized the wood chipper to site on June 21 following offsite repairs.

The following equipment was demobilized from the Site during this reporting period.

- None

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

Materials:

The following material was delivered to the Site during this reporting period.

- None

Dust Control and Monitoring

Six dust monitors were operated during construction activities at the locations and for the time intervals listed in Table 2. ES-4 was down from 5:30 p.m. to 2:30 a.m. during the night shift on June 21 due to a malfunctioning back-up battery.

The Total Suspended Particulate (TSP) action level of 260 micrograms/cubic meter was not exceeded during the reporting period.

Table 2 - TSP Dust Monitoring Locations during reporting period June 21 – June 27, 2019

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thu
ES-1 (stationary)	Midnite Mine Top of Pit 4	04/01/19	D/N			D/N	D/N	D/N	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	04/01/19	D/N			D/N	D/N	D/N	D/N
ES-3 (stationary)	Midnite Mine West Boundary	04/01/19	D/N			D/N	D/N	D/N	D/N
ES-4 (roving)	Top of Stockpile 3	04/30/19	D/*			D/N	D/N	D/N	D/N
ES-5 (roving)	Spare								
ES-6 (roving)	East Side of Pit 4 next to portable light plant.	04/01/19	D/N			D/N	D/N	D/N	D/N
ES-7 (roving)	Southeast corner of Area 5	04/02/19	D/N			D/N	D/N	D/N	D/N
ES-8 (roving)	Spare								
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (Fog, smoke, pollen, heavy rain, etc.) – No Operation * Equipment malfunction (Battery/Power Supply or Other)									

PROJECT DOCUMENTATION

Project Submittals, Engineering Change Notices (ECNs), Requests for Information (RFIs), Non-Compliance Notifications (NCNs), CQA-CQC Field Acceptance Forms and Other Items received, changed or noted during this time-period are shown in the table below:

Table 3 – CQA Documentation

Project Submittals			
Submittal No.	Title	Submittal Date	CQA Acceptance Date
02272-07.00	South Pond Geomembrane (GSE) (clarifications and additional information requested)	6/11/2019	TBD
02275-03.00	South Pond Geonet (GSE) (clarifications/revisions requested)	6/14/2019	TBD
01018-34.00	2019 2 nd Quarter Progress Survey	6/21/2019	6/27/2019
Project ECNs			
ECN No.	Title	EPA Submittal Date	EPA Response Date
None			
Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA Response Date
2019-11	Settlement Monitoring Point – South and West Ponds	6/19/2019	6/24/2019 EPA – No Comments on 6/24/2019
Project NCNs			
NCN No.	Title	CQA Issue Date	CQC Response Date
None to Date			
CQC-CQA Field Acceptance Forms			
CQC-CQA Acceptance No.	Title		CQC-CQA Issue Date
2019-15	Pit 4 – West IC 2 nd Lateral/Finger Drain (Section 4) Subgrade Acceptance		6/24/2019
Other Items			
Item	Title		Comments
None			

Copies of the updated CQA Logs are provided on the project SharePoint site under the 2019 CQA Folder.

SITE INSPECTIONS

Details regarding the four-phase CQA observation/inspection process for each definable work feature is summarized above within each work-feature section and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

Preparatory Inspections / Meetings

- None during this time-period.

Initial Phase Inspections

- None during this time-period.

Follow-up Phase and Ongoing Inspections

Daily observations/inspections by CQA during Pit 4 backfill and other construction activities for the following site-specific tasks:

- Pit 4 Backfill
 - Excavation of mine waste from the South Pond Cut/SWRP (low reactivity/low activity material) was used to construct the 20-foot buffer zone (rind), or was placed as general fill in the south bench area and in the northern portion of the pit.

- Excavation of the Overburden Pile along the east cover tie-in (low reactivity/low activity material) occurred between 6/25 and 6/26/2019 and was placed in the northern portion of the pit.
 - Excavation of Stockpile 1 (high reactivity/high activity material) began on 6/26/2019 and was placed within the boundary of the 20-foot buffer zone in the northern portion of the pit.
- West-Side Infiltration Collection System
 - Construction of the second lateral/finger drain (4th section).
CQA accepted/observed the following:
 - Subgrade (CQC-CQA Acceptance 2019-15)
 - GCL placement.
 - Drain gravel placement.
- Wood Chipping Activities
 - The grinder was repaired and chipping resumed on 6/24/2019.
- Construction Debris
 - 6/21/2019 – The D9 dozer crushed the failed ligno tank to a height of ≤ 2 feet and was buried in the northern portion of the pit within the Demolition Debris Zone.
 - 6/27/2019 – A small amount of construction debris was buried in the north portion of the pit within the Demolition Debris Zone.
- CSWPPP Inspection
 - West Access Road
 - The main drainage area was regraded, two new sed ponds were constructed (one on each side of the road where the drainage crosses) and check dams/wattles were installed along the length of the drainage.
 - Sediment was removed from the area around the West End Road culvert and the wattles reinstalled.
 - New Access Road
 - The berm located at the east outer edge of the topsoil stockpile was repaired and the erosion along the east face was regraded.
 - Accumulated sediment was removed from all ditch runouts.
- Water bars were constructed at regular intervals along the road.

Completion Inspections

- None

THREE WEEK LOOKAHEAD SCHEDULE

Three Week Lookahead Schedule

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:

David Lee
Project Construction Director

Attachments

- Attachment A – Midnite Mine 3 Week Lookahead Schedule

Photos of pertinent items are provided below.



Figure 1 – Overview of Pit 4, looking south



Figure 2 – 390 Excavators loading material from the South Pond excavation.



Figure 3 – Crushed ligno tank, looking east



Figure 4 – West Access Road main drainage following SWPPP repairs

ATTACHMENT A

MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE

Midnite Mine 2019 Production Schedule				Midnite Mine Remedial Action 3 Week Look Ahead Schedule				Data Date: 27-Jun-19 Print Date: 28-Jun-19					
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Midnite Work	July 2019							
						23	30	07	14	21	28	2019	
Midnite Mine 2019 Production Schedule			90	01-Apr-19 A									
Project Operations			90	01-Apr-19 A									
WTP & South Pond Excavation to Pit 4			14	01-Apr-19 A									
Stockpiles 8, 3 and 4			0	01-Apr-19 A									
SP8-10	Excavate and Haul remaining portions of Stockpiles 8, 3 and 4	100%	0	01-Apr-19 A	NMC	Portions of Stockpiles 8, 3 and 4							
South Pond			14	06-May-19 A									
SP3,4&SoPond-30	Excavate and Haul South Pond to Pit 4	90%	11	06-May-19 A	NMC	Excavate and Haul South Pond to Pit 4, Excavate and Haul South Pond to Pit 4							
SP3,4&SoPond-40	Finish Grade South Pond and Prep for Liner	0%	3	15-Jul-19	NMC	Finish Grade South Pond and Prep for Liner							
Pit 4 Operations			90	16-Apr-19 A									
DR10	Install Pit 4 Underdrain Dewatering Risers (LOE)	68%	90	16-Apr-19 A	NMC								
DR20	Install Pit 4 Waste Rock Dewatering Risers (LOE)	66%	90	16-Apr-19 A	NMC								
IC10	Install Pit 4 Infiltration Collectors (LOE)	40%	90	22-Apr-19 A	NMC								
SWRP (South Waste Rock Pile) to Pit 4			24	01-Apr-19 A									
SWRP North			24	01-Apr-19 A									
SWRP-N-10	Excavate and Haul SWRP North to Pit 4 (Part 1)	14%	24	01-Apr-19 A	NMC	Excavate and Haul SWRP North to Pit 4 (Part 1)							
SWRP Ramp to CSZ+WTP			20	02-Jul-19									
SWRP-CSZ+WTP	Excavate and Haul SWRP Ramp to CSZ+WTP to Pit 4	0%	20	02-Jul-19	NMC	Excavate and Haul SWRP Ramp to CSZ+WTP to Pit 4							
Timber Processing Areas			21	04-Jun-19 A									
TPA-10	Excavate and Haul Timber Processing Area Material to Pit 4 (TISS)	0%	10	15-Jul-19	NMC	Excavate and Haul Timber Processing Area Material to Pit 4 (TISS)							
TISS - Timber Processing			11	04-Jun-19 A									
TISSTP-10	Chipping of Trees and Slash in TISS	35%	11	04-Jun-19 A	NMC	Chipping of Trees and Slash in TISS; Chipping of Trees and Slash in TISS							
CSZ - Timber Processing			5	15-Jul-19									
CSZTP-10	Chipping of Trees and Slash in CSZ	0%	5	15-Jul-19	NMC	Chipping of Trees and Slash in CSZ							
Other Material to Pit 4			15	26-Jun-19 A									
Stockpile 1 (clear area for drain gravel)			15	26-Jun-19 A									
SP1-10	Excavate and Haul Stockpile 1 to Pit 4 (drain gravel clearing)	10%	15	26-Jun-19 A	NMC	Excavate and Haul Stockpile 1 to Pit 4 (drain gravel clearing)							
CSWPP			0	17-Jun-19 A									
CSWPP10	West Access Road CSWPP Maintenance	100%	0	17-Jun-19 A	NMC	West Access Road CSWPP Maintenance							
CSWPP20	New Access Road CSWPP Maintenance	100%	0	17-Jun-19 A	NMC	New Access Road CSWPP Maintenance							
General Tasks			2	24-Jun-19 A									
G10	Fence Inspection June 2019	0%	2	24-Jun-19 A	NMC	Fence Inspection June 2019, Fence Inspection June 2019							